

Title (en)
MEMS POWER RELAY CIRCUIT

Title (de)
MEMS LEISTUNGSRELAISSCHALTUNG

Title (fr)
CIRCUIT DE RELAIS DE PUISSANCE MEMS

Publication
EP 3654358 A1 20200520 (EN)

Application
EP 18206559 A 20181115

Priority
EP 18206559 A 20181115

Abstract (en)
A power relay circuit (100) for switching a load current includes a micro-electro-mechanical system switch, hereinafter MEMS switch (110), and a semiconductor power switch (120). The MEMS switch (110) and the semiconductor power switch (120) are connected in series with the load current.

IPC 8 full level
H01H 9/54 (2006.01); **H01H 47/00** (2006.01); **H01H 57/00** (2006.01); **H01H 59/00** (2006.01); **H01H 61/00** (2006.01); **H01H 71/00** (2006.01)

CPC (source: EP US)
H01H 1/0036 (2013.01 - US); **H01H 9/548** (2013.01 - EP US); **H01H 47/001** (2013.01 - EP); **H01H 47/02** (2013.01 - US); **H01H 59/0009** (2013.01 - US); **H01H 59/0009** (2013.01 - EP); **H01H 2057/006** (2013.01 - EP); **H01H 2061/006** (2013.01 - EP); **H01H 2071/008** (2013.01 - EP US); **H03K 2217/0063** (2013.01 - US)

Citation (search report)

- [XYI] US 7864491 B1 20110104 - BAUDER RUEDIGER [DE], et al
- [XA] EP 1681694 A1 20060719 - SCHNEIDER ELECTRIC IND SAS [FR]
- [XA] WO 2017070103 A1 20170427 - GEN ELECTRIC [US]
- [XA] US 2010014199 A1 20100121 - KAWA JAMIL [US], et al
- [YA] US 8597985 B1 20131203 - CHANCHANI RAJEN [US], et al
- [YA] US 2017283247 A1 20171005 - MEYER THORSTEN [DE], et al

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3654358 A1 20200520; US 11139125 B2 20211005; US 2020161062 A1 20200521; US 2021407746 A1 20211230

DOCDB simple family (application)
EP 18206559 A 20181115; US 201916678747 A 20191108; US 202117470635 A 20210909